

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478797

Luminaire Tested: **IFLD-S-SA6C-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478797  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

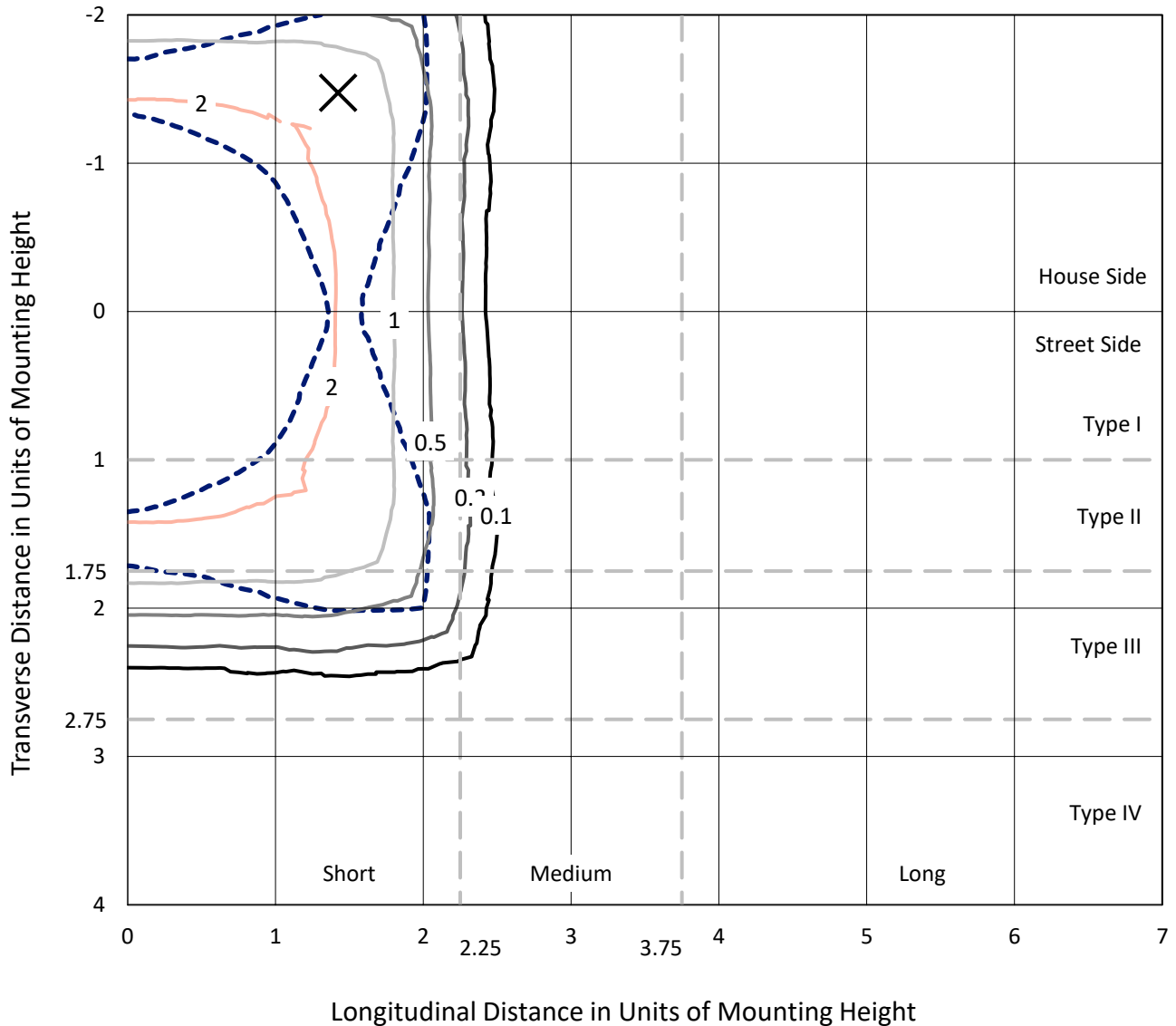
Lumens per Lamp: N/A  
Luminaire Lumens: 30526.7 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

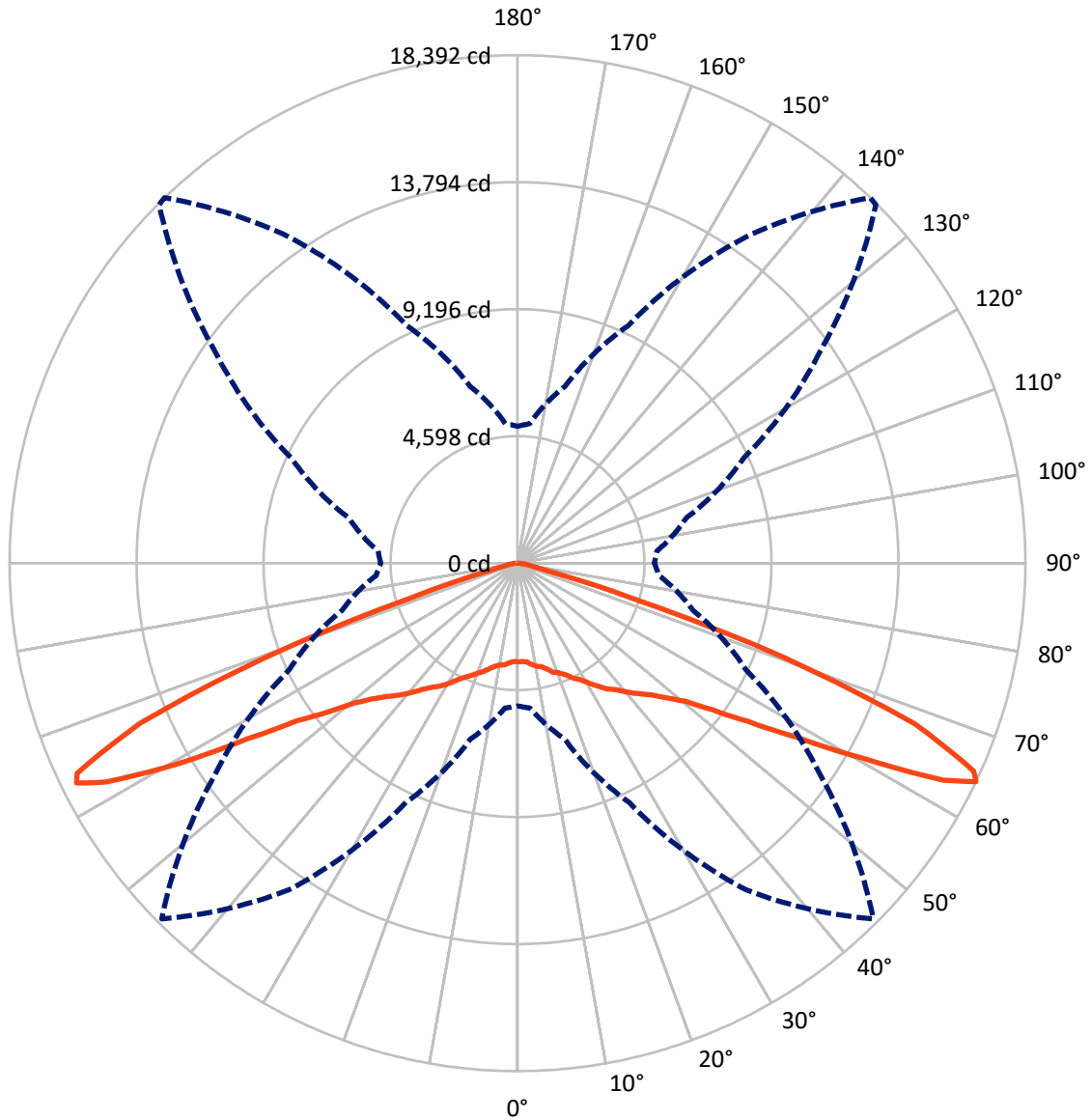
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15277.9	0.0	15277.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15248.8	0.0	15248.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30526.7	0.0	30526.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.2	1.2
10°-20°	1131.8	3.7
20°-30°	2127.2	7.0
30°-40°	3508.1	11.5
40°-50°	5486.5	18.0
50°-60°	8864.8	29.0
60°-70°	7982.2	26.1
70°-80°	945.5	3.1
80°-90°	129.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30526.7	100.0
0°-180°	30526.7	100.0

**Coefficient of Utilization**



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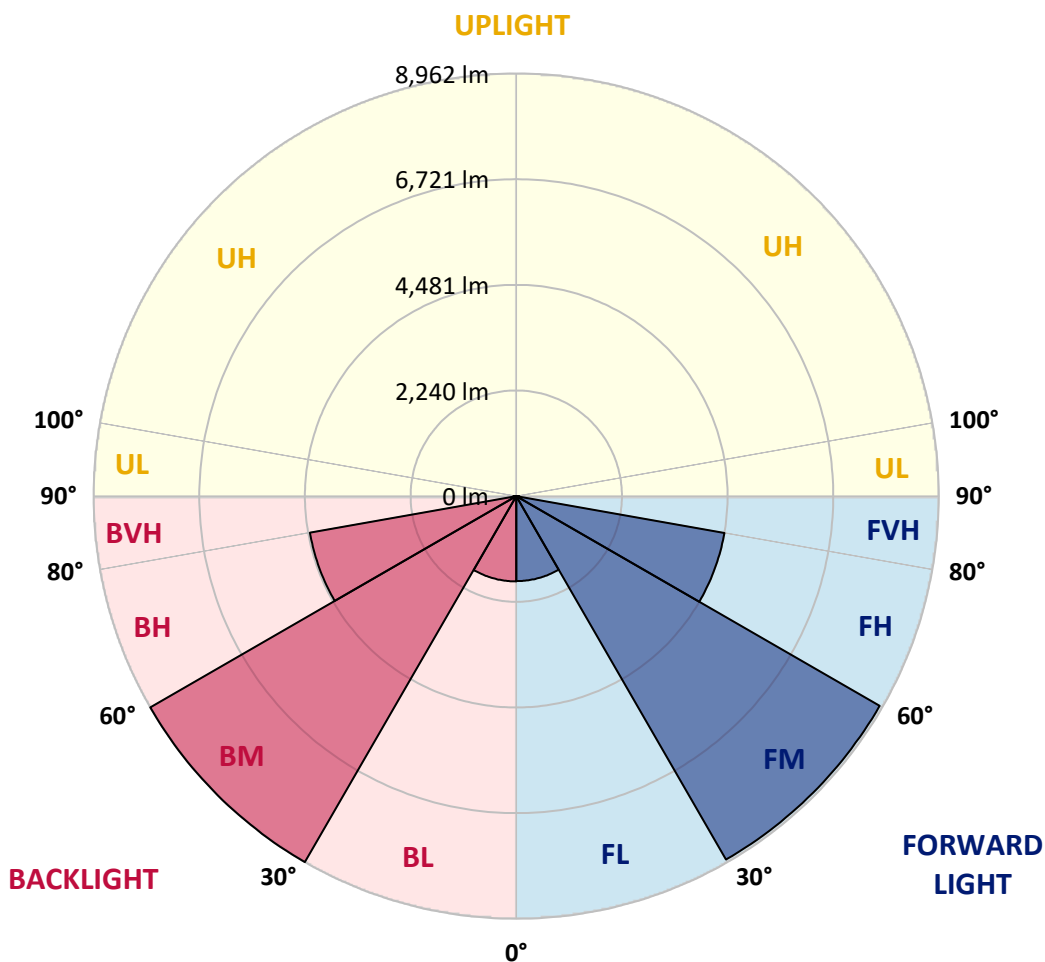
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.6	5.9			
FM (30°-60°)	8897.6	29.1			
FH (60°-80°)	4483.2	14.7			G2/5000
FVH (80°-90°)	66.4	0.2			G1/100
BL (0°-30°)	1808.6	5.9	B3/2500		
BM (30°-60°)	8961.8	29.4	B5		
BH (60°-80°)	4444.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	63.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0
2.5°	3532.0	3539.0	3602.1	3577.5	3598.6	3560.0	3588.0	3647.6	3577.5	3630.1	3647.6
5°	3570.5	3581.0	3581.0	3605.6	3619.6	3612.6	3630.1	3605.6	3672.1	3644.1	3686.1
7.5°	3710.6	3693.1	3665.1	3686.1	3689.6	3707.1	3724.6	3756.1	3745.6	3721.1	3763.1
10°	3735.1	3721.1	3763.1	3766.6	3749.1	3735.1	3752.6	3752.6	3784.1	3791.1	3791.1
12.5°	3777.1	3791.1	3787.6	3815.6	3819.1	3808.6	3836.6	3889.1	3875.1	3885.6	3861.1
15°	3938.1	3920.6	3917.1	3945.1	3990.6	3924.1	3973.1	3969.6	3955.6	3976.6	3920.6
17.5°	4078.1	4022.1	4046.6	4092.1	4074.6	4088.6	4151.6	4095.6	4109.6	4085.1	4067.6
20°	4200.6	4155.1	4158.6	4176.1	4176.1	4218.1	4242.6	4221.6	4207.6	4204.1	4211.1
22.5°	4337.2	4284.7	4288.2	4361.7	4386.2	4372.2	4354.7	4389.7	4396.7	4368.7	4400.2
25°	4438.7	4494.7	4512.2	4547.2	4494.7	4533.2	4519.2	4585.7	4627.7	4571.7	4610.2
27.5°	4704.7	4680.2	4725.7	4722.2	4764.2	4725.7	4750.2	4771.2	4788.7	4792.2	4774.7
30°	4942.8	4953.3	4907.8	5030.3	4932.3	4995.3	5037.3	5047.8	5068.8	5068.8	5016.3
32.5°	5194.8	5173.8	5247.3	5219.3	5201.8	5250.8	5205.3	5348.8	5264.8	5313.8	5254.3
35°	5478.3	5478.3	5506.3	5583.4	5478.3	5446.8	5530.8	5590.4	5590.4	5502.8	5523.8
37.5°	5796.9	5768.9	5803.9	5901.9	5821.4	5716.4	5870.4	5894.9	5877.4	5852.9	5810.9
40°	6020.9	6013.9	6083.9	6213.4	6097.9	6076.9	6104.9	6171.4	6192.4	6217.0	6160.9
42.5°	6399.0	6430.5	6633.5	6602.0	6507.5	6434.0	6427.0	6675.5	6616.0	6553.0	6521.5
45°	6959.1	6931.1	7036.1	7039.6	6917.1	6756.0	6791.0	7018.6	7120.1	6980.1	7032.6
47.5°	7403.6	7417.6	7491.1	7641.7	7358.1	7190.1	7319.6	7687.2	7655.7	7603.2	7652.2
50°	7998.7	8061.7	8292.8	8240.3	7988.2	7781.7	8065.2	8411.8	8450.3	8257.8	8222.8
52.5°	8821.3	8919.4	9045.4	9087.4	8845.9	8772.3	8789.8	9220.4	9125.9	8940.4	8821.3
55°	9542.5	9588.0	9819.0	10165.6	10148.1	9794.5	9997.5	10158.6	9773.5	9391.9	9423.4
57.5°	9850.5	9871.5	10515.6	11208.7	11621.8	11702.3	11471.3	10928.7	10011.5	9276.4	9230.9
60°	9083.9	9283.4	10060.5	11625.3	13512.1	14443.2	12906.5	11016.2	9454.9	8562.3	8495.8
62.5°	7260.1	7270.6	8425.8	10799.2	14688.2	17128.1	13456.1	10193.6	7970.7	6959.1	6693.0
64°	5170.3	5268.3	6595.0	9560.0	14443.2	18220.3	13389.5	9118.9	6570.5	5135.3	4949.8
65°	3710.6	3847.1	5128.3	8299.8	13869.1	18090.8	13190.0	8194.8	5313.8	3920.6	3731.6
67.5°	1365.2	1421.2	2012.8	4151.6	9959.0	15416.4	10452.6	4505.2	2334.9	1662.8	1494.7
70°	633.6	637.1	745.6	1372.2	4354.7	10309.1	4988.3	1690.8	878.6	696.6	647.6
72.5°	465.6	476.1	521.6	633.6	1281.2	4365.2	1638.3	693.1	514.6	455.1	444.6
75°	378.1	385.1	399.1	458.6	591.6	1169.2	665.1	479.6	409.6	367.6	353.6
77.5°	290.5	290.5	322.0	350.1	392.1	546.1	441.1	381.6	332.6	290.5	280.0
80°	210.0	213.5	252.0	273.0	266.0	360.6	318.5	315.0	273.0	227.5	210.0
82.5°	122.5	133.0	182.0	196.0	189.0	213.5	231.0	245.0	213.5	157.5	143.5
85°	70.0	73.5	105.0	108.5	108.5	101.5	133.0	147.0	143.5	98.0	87.5
87.5°	21.0	21.0	28.0	28.0	31.5	35.0	52.5	63.0	70.0	49.0	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0
2.5°	3630.1	3577.5	3581.0	3595.0	3549.5	3567.0	3619.6	3581.0	3570.5	3549.5	3539.0
5°	3612.6	3668.6	3647.6	3654.6	3644.1	3595.0	3588.0	3619.6	3637.1	3605.6	3668.6
7.5°	3735.1	3710.6	3682.6	3693.1	3668.6	3710.6	3738.6	3675.6	3707.1	3689.6	3654.6
10°	3805.1	3759.6	3780.6	3773.6	3756.1	3798.1	3770.1	3763.1	3735.1	3696.6	3752.6
12.5°	3829.6	3882.1	3917.1	3857.6	3868.1	3847.1	3829.6	3829.6	3798.1	3787.6	3798.1
15°	3938.1	3983.6	3969.6	4015.1	3955.6	3976.6	3997.6	3945.1	3973.1	3896.1	3955.6
17.5°	4137.6	4099.1	4148.1	4088.6	4109.6	4151.6	4085.1	4085.1	4106.1	4064.1	4011.6
20°	4263.7	4246.1	4228.6	4232.1	4197.1	4235.6	4214.6	4204.1	4172.6	4186.6	4214.6
22.5°	4382.7	4358.2	4365.2	4375.7	4400.2	4382.7	4372.2	4382.7	4305.7	4375.7	4277.7
25°	4529.7	4596.2	4575.2	4620.7	4550.7	4596.2	4592.7	4526.2	4568.2	4540.2	4519.2
27.5°	4774.7	4739.7	4771.2	4715.2	4764.2	4767.7	4725.7	4837.7	4788.7	4781.7	4767.7
30°	5089.8	5065.3	5044.3	5012.8	5051.3	5019.8	5054.8	5065.3	5019.8	4984.8	4918.3
32.5°	5268.3	5334.8	5359.3	5282.3	5285.8	5303.3	5271.8	5240.3	5268.3	5278.8	5268.3
35°	5520.3	5583.4	5597.4	5537.8	5506.3	5593.9	5530.8	5635.9	5544.8	5548.3	5453.8
37.5°	5814.4	5831.9	5950.9	5884.4	5856.4	5814.4	5929.9	5915.9	5936.9	5768.9	5852.9
40°	6146.9	6209.9	6276.5	6108.4	6104.9	6143.4	6136.4	6217.0	6178.4	6153.9	6094.4
42.5°	6511.0	6644.0	6654.5	6542.5	6472.5	6465.5	6500.5	6679.0	6682.5	6521.5	6451.5
45°	6994.1	7141.1	7102.6	6885.6	6808.5	6798.0	6969.6	7046.6	7113.1	7050.1	6990.6
47.5°	7596.2	7694.2	7666.2	7466.6	7218.1	7288.1	7456.1	7697.7	7627.7	7543.7	7473.6
50°	8240.3	8355.8	8296.3	8096.7	7858.7	7858.7	8065.2	8373.3	8352.3	8187.8	8124.7
52.5°	8954.4	9122.4	9258.9	8975.4	8775.8	8807.3	9132.9	9244.9	9192.4	9076.9	9024.4
55°	9486.5	9808.5	10088.5	10102.5	10113.0	10109.5	10193.6	10305.6	9931.0	9745.5	9556.5
57.5°	9356.9	9966.0	10925.2	11576.3	11768.8	11870.3	11842.3	11324.2	10438.6	9829.5	9892.5
60°	8432.8	9426.9	10974.2	13064.0	14464.2	14324.2	13813.1	11765.3	10158.6	9129.4	8999.9
62.5°	6728.0	7925.2	10151.6	13484.1	17341.7	17299.6	14625.2	10746.6	8464.3	7162.1	7081.6
64°	5068.8	6329.0	9055.9	13375.5	18349.8	18391.8	14418.7	9493.5	6623.0	5068.8	4946.3
65°	3878.6	5047.8	7981.2	13151.5	18132.8	18157.3	13844.6	8198.3	5033.8	3598.6	3465.5
67.5°	1543.7	2149.3	4330.2	9973.0	15570.4	15503.9	9878.5	3966.1	1925.3	1253.2	1228.7
70°	658.1	819.1	1519.2	4725.7	10424.6	10232.1	4253.2	1288.2	714.1	598.6	595.1
72.5°	451.6	500.6	651.1	1459.7	4333.7	4232.1	1211.2	598.6	486.6	448.1	448.1
75°	364.1	399.1	472.6	612.6	1148.2	1106.2	570.6	441.1	388.6	360.6	357.1
77.5°	283.5	318.5	371.1	423.6	525.1	521.6	381.6	332.6	301.0	280.0	273.0
80°	224.0	259.0	294.0	301.0	343.1	336.1	259.0	262.5	245.0	203.0	199.5
82.5°	154.0	210.0	234.5	213.5	203.0	203.0	185.5	185.5	171.5	126.0	115.5
85°	94.5	140.0	147.0	126.0	94.5	94.5	101.5	98.0	91.0	66.5	63.0
87.5°	49.0	66.5	59.5	49.0	31.5	31.5	28.0	21.0	21.0	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)